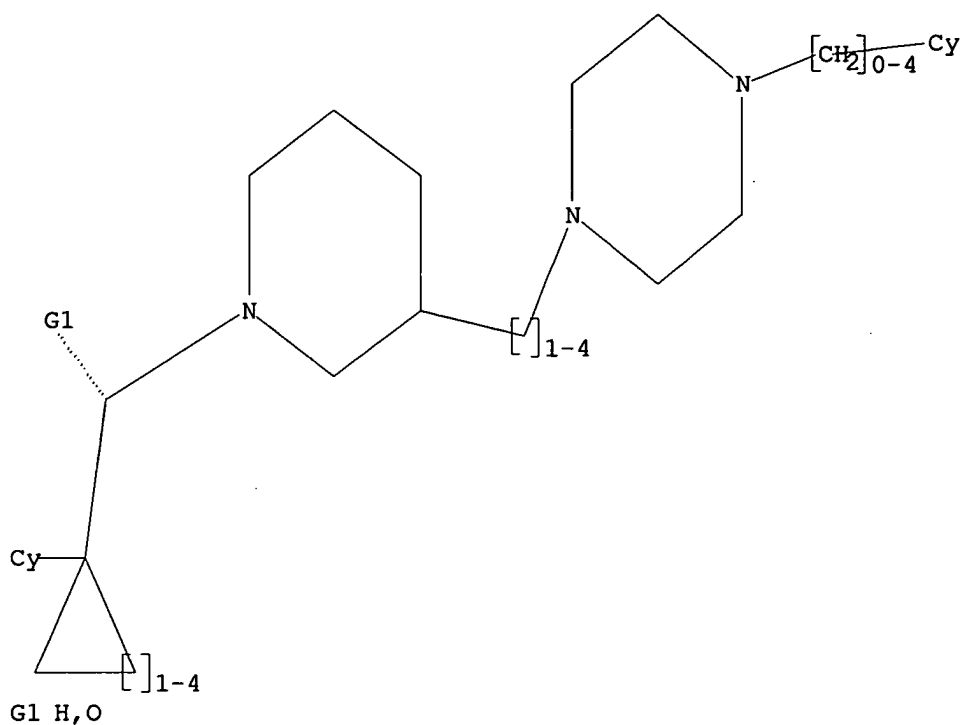


10/808,252



Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 16:58:02 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 364 TO ITERATE

100.0% PROCESSED 364 ITERATIONS
SEARCH TIME: 00.00.01

1 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 6136 TO 8424
PROJECTED ANSWERS: 1 TO 80

L2 1 SEA SSS SAM L1

=> s l1 sss full

FULL SEARCH INITIATED 16:58:09 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 7200 TO ITERATE

100.0% PROCESSED 7200 ITERATIONS
SEARCH TIME: 00.00.01

12 ANSWERS

L3 12 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

161.33

161.54

FILE 'CAPLUS' ENTERED AT 16:58:20 ON 03 FEB 2005

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 3 Feb 2005 VOL 142 ISS 6
FILE LAST UPDATED: 2 Feb 2005 (20050202/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 13

L4 1 L3

=> d 14 ibib abs hitstr

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:674790 CAPLUS

DOCUMENT NUMBER: 137:216954

TITLE: Preparation of 1-piperidinylmethyl-4-arylpiperazines as ligands for dopamine, serotonin, or norepinephrine receptors/transporters.

INVENTOR(S): Persons, Paul E.; Radeke, Heike

PATENT ASSIGNEE(S): Sepracor, Inc., USA

SOURCE: U.S. Pat. Appl. Publ., 37 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

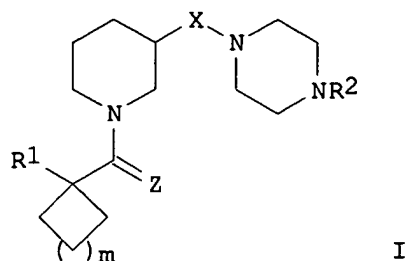
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002123499	A1	20020905	US 2002-87609	20020301
US 6713479	B2	20040330		
WO 2002069973	A1	20020912	WO 2002-US6273	20020301
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
US 2004254195	A1	20041216	US 2004-808252	20040324
PRIORITY APPLN. INFO.:			US 2001-272966P	P 20010302
			US 2002-87609	A1 20020301
OTHER SOURCE(S):	MARPAT 137:216954			

GI



AB Title compds. [I; X = (CR₂)_n; Z = O, H₂; R = H, alkyl, cycloalkyl, aryl, heteroaryl, aralkyl, heteroaryl; 2 geminal R = O; R₁ = (substituted) aryl, heteroaryl; R₂ = (substituted) aryl, heteroaryl, aralkyl, heteroaralkyl, diarylalkyl, diheteroarylalkyl; m = 0-3; n = 1-3], were prepared. Thus, methanesulfonic acid 1-[1-(4-chlorophenyl)cyclobutanecarbonyl]piperidine-3-ylmethyl ester (preparation given), 1-(2-methoxyphenyl)piperazine, and Et₃N were refluxed 20 h in MeCN to give [1-(4-chlorophenyl)cyclobutyl]-[3-[4-(2-methoxyphenyl)piperazin-1-ylmethyl]piperidin-1-yl]methanone. The latter showed IC₅₀ < 1 μM for α_{2a} receptors.

IT 454445-10-4P 454445-12-6P 454445-13-7P

454445-14-8P 454445-15-9P 454445-16-0P

454445-17-1P 454445-18-2P 454445-19-3P

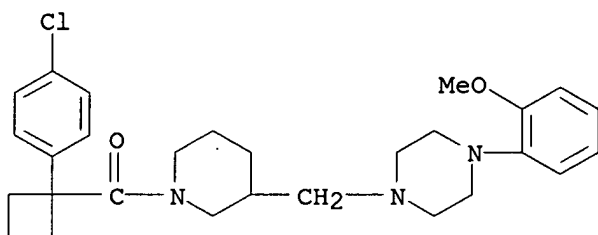
454445-20-6P 454445-21-7P 454445-22-8P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of 1-piperidinylmethyl-4-arylpiperazines as ligands for dopamine, serotonin, or norepinephrine receptors/transporters)

RN 454445-10-4 CAPLUS

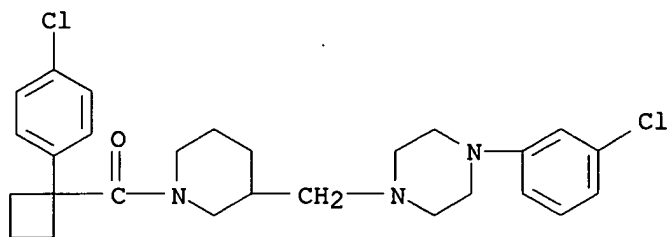
CN Piperidine, 1-[[1-(4-chlorophenyl)cyclobutyl]carbonyl]-3-[[4-(2-methoxyphenyl)-1-piperazinyl]methyl]- (9CI) (CA INDEX NAME)



RN 454445-12-6 CAPLUS

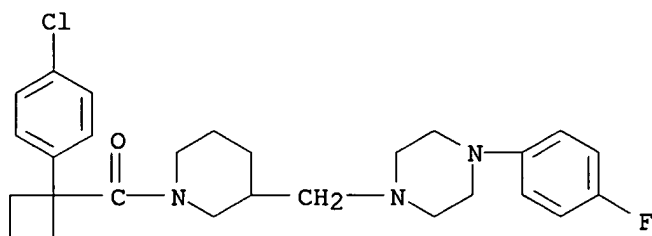
CN Piperidine, 1-[[1-(4-chlorophenyl)cyclobutyl]carbonyl]-3-[[4-(3-chlorophenyl)-1-piperazinyl]methyl]- (9CI) (CA INDEX NAME)

10/808,252



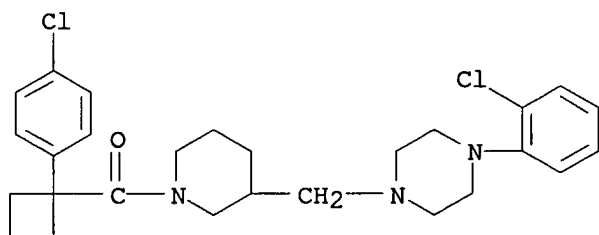
RN 454445-13-7 CAPLUS

CN Piperidine, 1-[[1-(4-chlorophenyl)cyclobutyl]carbonyl]-3-[[4-(4-fluorophenyl)-1-piperazinyl]methyl]- (9CI) (CA INDEX NAME)



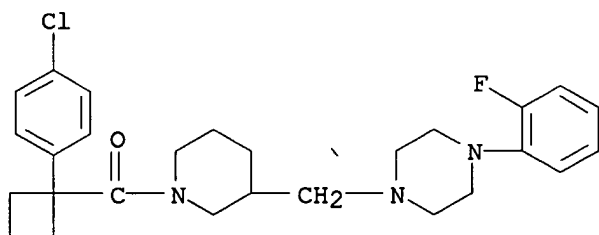
RN 454445-14-8 CAPLUS

CN Piperidine, 1-[[1-(4-chlorophenyl)cyclobutyl]carbonyl]-3-[[4-(2-chlorophenyl)-1-piperazinyl]methyl]- (9CI) (CA INDEX NAME)



RN 454445-15-9 CAPLUS

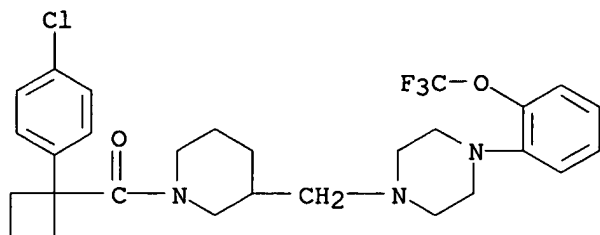
CN Piperidine, 1-[[1-(4-chlorophenyl)cyclobutyl]carbonyl]-3-[[4-(2-fluorophenyl)-1-piperazinyl]methyl]- (9CI) (CA INDEX NAME)



RN 454445-16-0 CAPLUS

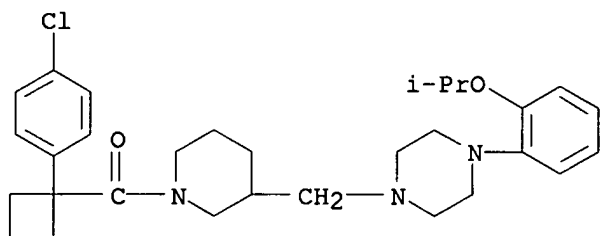
CN Piperidine, 1-[[1-(4-chlorophenyl)cyclobutyl]carbonyl]-3-[[4-[2-(trifluoromethoxy)phenyl]-1-piperazinyl]methyl]- (9CI) (CA INDEX NAME)

10/808,252



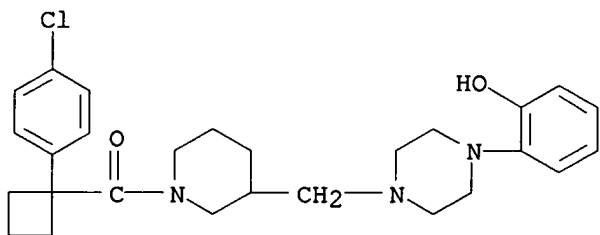
RN 454445-17-1 CAPLUS

CN Piperidine, 1-[[1-(4-chlorophenyl)cyclobutyl]carbonyl]-3-[[4-[2-(1-methylethoxy)phenyl]-1-piperazinyl]methyl]- (9CI) (CA INDEX NAME)



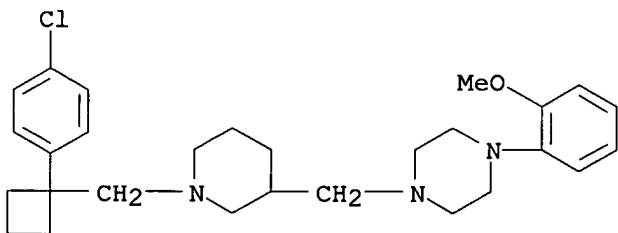
RN 454445-18-2 CAPLUS

CN Piperidine, 1-[[1-(4-chlorophenyl)cyclobutyl]carbonyl]-3-[[4-(2-hydroxyphenyl)-1-piperazinyl]methyl]- (9CI) (CA INDEX NAME)



RN 454445-19-3 CAPLUS

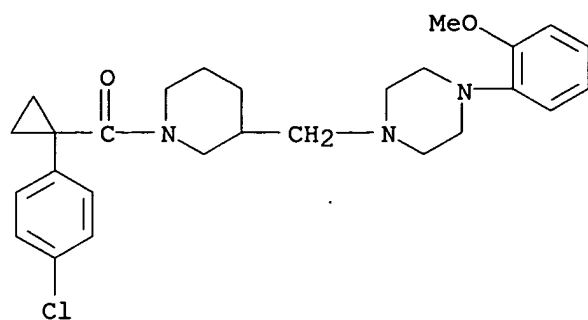
CN Piperazine, 1-[[1-[[1-(4-chlorophenyl)cyclobutyl]methyl]-3-piperidinyl]methyl]-4-(2-methoxyphenyl)- (9CI) (CA INDEX NAME)



RN 454445-20-6 CAPLUS

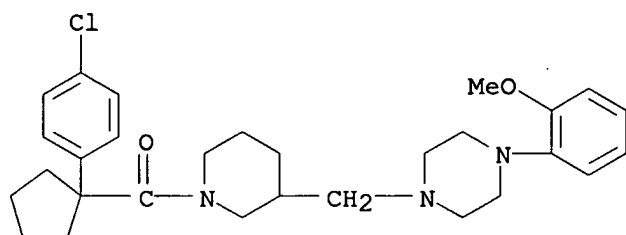
CN Piperidine, 1-[[1-(4-chlorophenyl)cyclopropyl]carbonyl]-3-[[4-(2-methoxyphenyl)-1-piperazinyl]methyl]- (9CI) (CA INDEX NAME)

10/808,252



RN 454445-21-7 CAPLUS

CN Piperidine, 1-[[1-[(4-chlorophenyl)cyclopentyl]carbonyl]-3-[[4-(2-methoxyphenyl)-1-piperazinyl]methyl]- (9CI) (CA INDEX NAME)



RN 454445-22-8 CAPLUS

CN Piperazine, 1-[[1-[[1-(4-chlorophenyl)cyclopropyl]methyl]-3-piperidinyl]methyl]-4-(2-methoxyphenyl)- (9CI) (CA INDEX NAME)

